

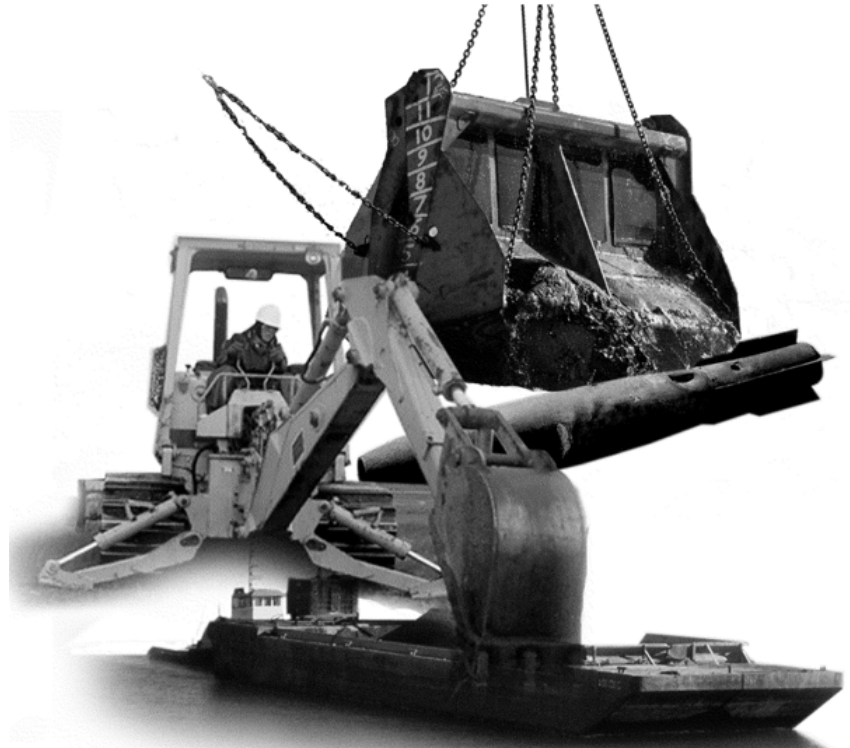


Task Order 7

# **Draft (v. 5) Environmental Baseline Survey – 2003 Update**

Former Naval Air Facility  
Adak Island, Alaska

March 14, 2003



**FOSTER WHEELER ENVIRONMENTAL CORPORATION**

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RAC 3/TASK ORDER 7

DRAFT (v. 5)  
ENVIRONMENTAL BASELINE SURVEY  
2003 UPDATE

FORMER NAVAL AIR FACILITY  
ADAK ISLAND, ALASKA

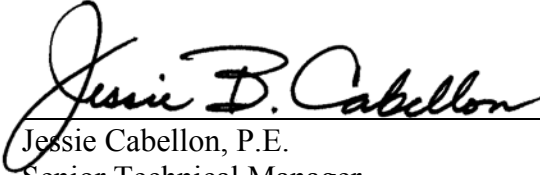
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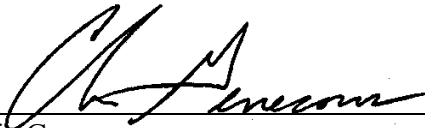
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## DOCUMENT IDENTIFICATION

**Document Title:** Draft Environmental Baseline Survey (Rev. 5)

**Site Name and Location:** Former Naval Air Facility  
Adak Island, Alaska

**Task Order:** 7

**Report Coverage:** This report presents the findings and conclusions of an environmental baseline survey (EBS) that supports base realignment and closure activities at the Former NAF Adak, Alaska. This document was performed in accordance with 40 CFR Part 323. It is an update to an EBS prepared in March 2002 by Environmental Chemical Corporation.

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## EXECUTIVE SUMMARY

1 The former Naval Air Facility (NAF) Adak consists of 76,800 acres of land located on the  
2 northern portion of Adak Island, Alaska. Former NAF Adak was selected for closure in July  
3 1995 under the Base Realignment and Closure (BRAC) process. The purpose of an  
4 environmental baseline survey (EBS) is to collect sufficient information to classify the  
5 environmental condition of properties associated with the former NAF Adak to determine  
6 whether they may be transferred to or leased by other parties. The scope of this EBS is limited to  
7 former Navy-occupied property. It does not include the property managed by the U.S. Fish and  
8 Wildlife Service (USFWS).

9 The former NAF Adak is a National Priorities List (Superfund) site that contains many areas  
10 contaminated by chemicals (hazardous substances) and petroleum products as the result of more  
11 than 50 years of military activity on the Island. In the case of Adak, it should be noted that  
12 hazardous substances also include ordnance and explosives (OE) and unexploded ordnance  
13 (UXO), and their associated physical hazards and chemical risks. The areas contaminated by  
14 hazardous substances and petroleum releases have been the subject of extensive investigation  
15 and cleanup activities. With the exception of the planned cleanup of several petroleum-  
16 contaminated sites and OE/UXO cleanup in Parcel 4, cleanup as described in Records of  
17 Decision (RODs) at the former NAF Adak has been completed and Parcels 1A, 1B, 2, and 3 are  
18 suitable for transfer (i.e., Environmental Condition of Property [ECP] 1, 2, 3, or 4). OE/UXO  
19 cleanup for the remainder of the military reservation, which will be retained by the Navy for an  
20 indefinite period, will occur after 2003. In some of the areas suitable for transfer,  
21 implementation of institutional controls is required as part of the selected remedy.

22 To facilitate investigative and cleanup activities for the various types of contaminants present,  
23 two operable units (OUs) have been created for Adak: OU A, which encompasses the entire  
24 military reservation with respect to disposal or release of non-ordnance-related hazardous  
25 substances; and OU B, which encompasses the same area with respect to ordnance issues. For  
26 purposes of managing the cleanup at ordnance-related sites, OU B has been divided into OU B-1  
27 and OU B-2. OU B-1 generally encompasses all sites within Parcels 1A, 1B, 2, and 3. OU B-2  
28 generally encompasses all sites within Parcel 4. For the purposes of land transfer, the military  
29 reservation at Adak has been further subdivided into five land exchange parcels to facilitate  
30 cleanup and management of various portions of the military reservation with respect to ordnance  
31 issues. These five parcels are designated:

- 32 • Parcel 1A: Adak Exchange Lands—Transferable as of January 2003
- 33 • Parcel 1B: Adak Exchange Lands—Transferable as of January 2003

## EXECUTIVE SUMMARY (CONTINUED)

- 1 • Parcel 2: Mt. Reed Exclusion Zone—Transferable as of April 2002
- 2 • Parcel 3: Remainder PLO-1949—Transferable as of January 2003
- 3 • Parcel 4: Solid Waste Management Unit (SWMU) Exclusion Zone—Non-transferable as of
- 4 January 2003

5 Land exchange parcels are referred to throughout this EBS report and in many of the  
6 environmental documents produced since the creation of separate OUs in 1999. The land  
7 exchange parcels are shown in Figure ES-1 at the end of this Executive Summary.

8 This document is an update to the Final EBS dated March 2002. The initial EBS for Adak was  
9 conducted in 1996 (U.S. Navy [Navy] 1996a) and reflects closure of the host command, former  
10 NAF Adak, in 1997 and additional cleanup activities conducted since 1996. To prepare this EBS  
11 report update, the previous EBS was reviewed, along with other environmental documents  
12 published since the last update of the EBS. Project managers from the Navy who were  
13 responsible for executing recent cleanup activities were interviewed to obtain specific details of  
14 new activities. No sampling activities were conducted specifically for this EBS report update,  
15 although significant environmental sampling and analysis has taken place under other Adak  
16 environmental programs.

17 As part of the EBS, properties are placed in seven “environmental-condition-of-property” (ECP)  
18 classifications as defined by U.S. Department of Defense (DoD) guidance (DoD 1996a).

19 Details of the seven ECP classifications are as follows:

- 20 • ECP 1—Areas where no release or disposal of hazardous substances or petroleum products  
21 has occurred (including no migration of these substances from adjacent areas).
- 22 • ECP 2—Areas where only release or disposal of petroleum products has occurred.
- 23 • ECP 3—Areas where release, disposal, or migration of hazardous substances has occurred,  
24 but at concentrations that do not require a removal or remedial action.
- 25 • ECP 4—Areas where release, disposal, or migration of hazardous substances has occurred  
26 and all remedial actions necessary to protect human health and the environment have been  
27 taken.
- 28 • ECP 5—Areas where release, disposal, or migration of hazardous substances has occurred  
29 and removal or remedial actions are under way, but all required remedial actions have not yet  
30 been taken.
- 31 • ECP 6—Areas where release, disposal, or migration of hazardous substances has occurred,  
32 but required actions have not yet been implemented.
- 33 • ECP 7—Areas that are unevaluated or that require additional evaluation.

## EXECUTIVE SUMMARY (CONTINUED)

1 Individual sites and buildings with ECP classifications of 1, 2, 3, or 4 are currently suitable for  
2 transfer or lease. Large tracts of land surrounding Comprehensive Environmental Response,  
3 Compensation, and Liability Act (CERCLA) sites and buildings with ECP classifications of 1  
4 through 4 are also suitable for transfer or lease. Petroleum-release sites are classified as ECP 2  
5 and are suitable for transfer, even though remedial activities for petroleum are ongoing.  
6 Approximately 94 percent of Navy property is classified ECP 1, 2, 3, or 4. Some of this  
7 transferable property is located in or near downtown Adak, where buildings, roads, airport  
8 facilities, and other infrastructure elements are located. This area is included in Land Exchange  
9 Parcel 1A, which contains about 44 percent of the land that is suitable for transfer. Other  
10 transferable properties are Parcels 1B, 2, and 3.

11 Areas that are classified as ECP 5, 6, or 7 are not currently suitable for transfer, but may be  
12 suitable for lease. These areas are within Parcel 4, located near Andrew Lake at the north end of  
13 Adak Island.

14 All OU A sites are classified as ECP 1, 2, 3, or 4 (i.e., they are all transferable). A total of 171  
15 OU B sites are also currently classified as ECP 1, 2, 3, or 4. Fifteen of these sites are within the  
16 boundaries of Parcel 4, which has been designated as the Solid Waste Management Unit  
17 (SWMU) Exclusion Zone at Andrew Lake (Parcel 4). This parcel will not be transferred in the  
18 foreseeable future. The Navy has been informed by the U.S. Fish and Wildlife Service  
19 (USFWS) that the USFWS is not interested in the transfer of parts of the Parcel 4 real estate into  
20 the Alaska Maritime National Wildlife Refuge (AMNWR) unless all of the Parcel 4 property can  
21 be transferred. In view of the USFWS position, it cannot be assumed that any of the OU B-2  
22 Parcel 4 real estate will be used for wildlife refuge purposes unless the entire parcel is  
23 remediated. For this reason, until planned remediation in Parcel 4 is complete, no properties  
24 within the parcel will be transferred. Fifteen additional sites with an ECP of 1, 2, 3, or 4 are  
25 partially located within Parcel 4. Portions of these sites within the Parcel 4 boundary are also  
26 subject to the USFWS decision regarding partial transfer of Parcel 4.

27 A total of 23 sites have an ECP of 6 or 7. All of these are in Parcel 4. At the present time, three  
28 sites (MAG-01, SA-01, and LJ-02A) in OU B-2 with an ECP of 7 have been recommended for  
29 an observational approach remedial action. Three additional sites (RR-02, SA93-02, and SA93-  
30 04) with an ECP of 6 in OU B-2 have also been recommended for an observational approach  
31 remedial action. The remedial actions required for OU B-1 sites are documented in the ROD for  
32 OU B-1, which was signed in December 2001 by the Navy, the U.S. Environmental Protection  
33 Agency (EPA), and the Alaska Department of Environmental Conservation (ADEC). Remedial

## EXECUTIVE SUMMARY (CONTINUED)

1 activities in Parcel 4 will be identified in a separate ROD for OU B-2. Seven OU A sites lie  
2 within, or partially within, Parcel 4 at Andrew Lake: SWMU 1, SWMU 6, SWMU 7, SWMU 8,  
3 SWMU 9, Source Area (SA) 93, and SA94. Three of these sites were considered under OU A  
4 for potential impacts associated with constituent chemicals of ordnance (SWMU 8, SA93, and  
5 SA94). Site SWMU 1 was considered for both impacts associated with chemical constituents of  
6 ordnance and non-ordnance-related chemical contamination. Sites SWMU 6, SWMU 7, and  
7 SWMU 9 were considered for non-ordnance-related chemical issues. All seven sites have an  
8 ECP of 4 or less under the OU A criteria for chemical contamination; however, potential impacts  
9 associated with explosive hazards of ordnance are addressed under OU B and are considered  
10 separately. Portions of four of these OU A sites with potential ordnance explosive hazards have  
11 been evaluated as part of OU B. In some cases, more than one area of interest (under OU B) was  
12 identified within a former OU A site. This information is summarized in Table ES-1. Table  
13 ES-2 lists all CERCLA ordnance sites on Adak that are not currently transferable (as of the date  
14 of this report). These sites are depicted on Figure ES-1.

15 **Table ES-1.** Summary of Ordnance of Sites within Parcel Four OU A Sites

OU A Site	OU B Site
SWMU 1	OB/OD-01 M1-01, 02, 03 HG-01 RG-01 RR-01, 02, 03, 04 SA-01, 02
SWMU 8	ALDA-01, 02
SA93	SA93-01, 02, 03, 04
SA94	Revised ordnance area outside Parcel 4

16 In addition to the seven ECP classifications, the status of some properties assessed in an EBS may  
17 also be affected by “qualifiers or notification requirements.” These are property overlays that may in  
18 some way modify, limit, or restrict use as a result of the presence of non-CERCLA materials, such as  
19 lead-based paint, asbestos-containing materials, ordnance, radon, or radionuclides. As previously  
20 stated, the Navy intends to maintain Parcel 4 surrounding Andrew Lake on Adak Island as a Solid  
21 Waste Management Unit (SWMU) Exclusion Zone; therefore, no portion of Parcel 4 will be  
22 transferred, regardless of ECP category, until Parcel 4 as a whole is transferable to USFWS. All  
23 ordnance sites are to be included in an island-wide ordnance education and awareness program as  
24 required by the OU B-1 ROD. At the current time, no part of the Navy-retained SWMU Exclusion

## **EXECUTIVE SUMMARY (CONTINUED)**

- 1 Zone (Parcel 4) will be used (or permitted for use) for residential or commercial purposes. Access is
- 2 limited to trained explosive ordnance disposal (EOD) technicians or other individuals authorized for
- 3 entry by the Navy.

## EXECUTIVE SUMMARY (CONTINUED)

**Table ES-2.**

**Summary of Non-transferable OU B Sites on Adak as of Report Date**

Site Designation	Site Name	Location	OU B
ECP 6 – RI/FS Complete; Remedial Action Not Complete			
ALDA-01	Andrew Lake Disposal Area	West end of Andrew Lake Seawall	2
ALSW-01	Andrew Lake Seawall	Seawall along north end of Andrew Lake	2
C1-01	Combat Range #1	Northeast flanks of Mt. Moffett	2
HG-01	Andrew Lake Hand Grenade Range	Range area west of Andrew Lake	2
LJ-01	Lake Jean Ammunition Complex – Flare Disposal Site	Northeast of downtown near Lake Jean	1
MI-01, 02, & 03	Andrew Lake Mortar Impact Area	Range area west of Andrew Lake	2
MM-10A & B	Mt. Moffett Impact Areas	Front (eastern face) of Mt. Moffett	1
MM-10 E, & 11 (Parcel 4 areas only)	Mt. Moffett Impact Areas	Front (eastern face) of Mt. Moffett	1
OB/OD-01	Andrew Lake Open Burn/Open Detonation Disposal Site	Range area west of Andrew Lake	2
RG-01	Andrew Lake Rifle Grenade Range	Range area west of Andrew Lake	2
RR-01 & 02	Andrew Lake Range Remainder	Range area west of Andrew Lake	2
SA93-01, 02, 03, & 04	Source Area 93	East of Andrew Lake near the end of the seawall	2
ECP 7 – Observational Approach Remedial Action			
MAG-01	WWII Magazine	East end of Andrew Lake Seawall	2
SA-01	Small Arms Range	West side of Andrew Lake	2
LJ-02A	Lake Jean Ammunition Complex	Northeast of downtown near Lake Jean	2
ECPs 1 through 4 – Non-transferable Due to Presence in Parcel 4 (to be maintained as Solid Waste Management Unit (SWMU) Exclusion Zone)			
ALDA-02	Andrew Lake Disposal Area – Beach Crater Area	West end of Andrew Lake Seawall, west of ALDA-01	2
BC-03	Blind Cove/Campers Cove Impact Area – Firing Point #1	Andrew Lake Seawall near the east end	2
C8-05B	Combat Range #8 – Remainder	Northeast of downtown near Lake Jean	1
DM-03	Lake De Marie Impact Area – Firing Point #1	Southwest of Lake Jean in Parcel 4	1
LJ-02	Lake Jean Ammunition Complex	Northeast of downtown near Lake Jean	1
MF-01, 02, & 03	Designated Potential Mine Field locations in Parcel 4	East and west ends of Andrew Lake Seawall	2
MM-09	Mt. Moffett Impact Area	Front (eastern face) of Mt. Moffett	1
MM-10D	Mt. Moffett Impact Area	Front (eastern face) of Mt. Moffett	2
RR-03 & 04	Andrew Lake Range Remainder	Range area west of Andrew Lake	2
SA-02, 03, 04, & 05	Small arms ranges in Parcel 4	Range area west of Andrew Lake	2
Portions of other sites lying inside Parcel 4 – See Note	Various	Various areas west of Andrew Lake	NA
NOTE: Portions of several OU B sites on Adak are non-transferable due to their presence in Parcel 4. These include C1-03; C8-05; DM-04; GUN-01, 02, & 03; LJ-05 and MM-04, 10E, 11, 12, 13, 15, 16, 18, 19, & 21. Portions of these areas outside Parcel 4 are transferable at the current time.			

1  
2

Figure ES-1

**Land Exchange Parcels and CERCLA Ordnance Sites in OU B**  
Adak Island, Alaska

**Land Exchange Parcel Boundary**

- Parcel 1A - Transferable
- Parcel 1B - Transferable
- Parcel 2 - Transferable
- Parcel 3 - Transferable
- Parcel 4 - Non-transferable

**Transferability Legend**

- Transferable
- Not Transferable
- Transferable Outside Parcel 4

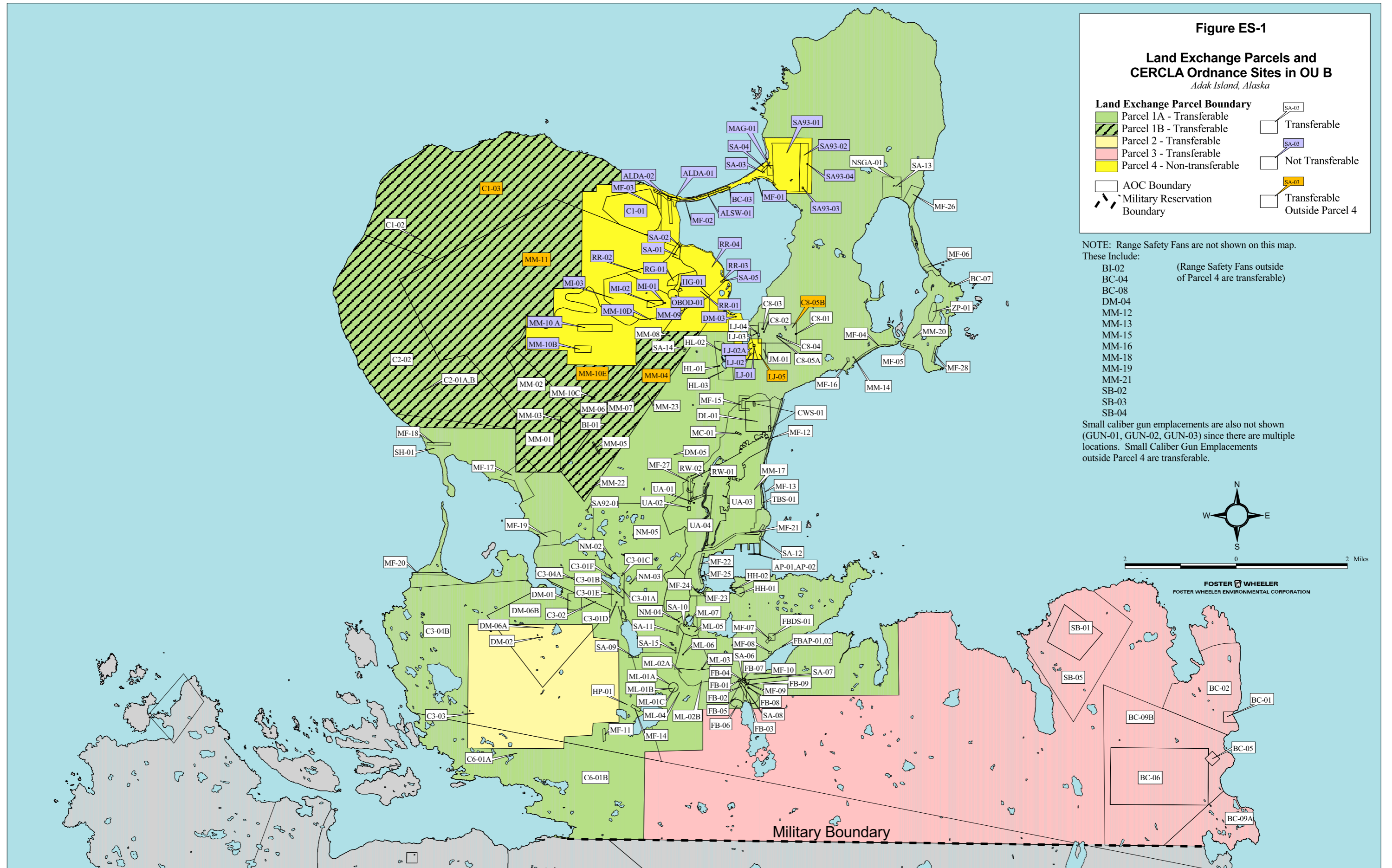
**Other Symbols**

- AOC Boundary
- Military Reservation Boundary

NOTE: Range Safety Fans are not shown on this map. These Include:

- BI-02 (Range Safety Fans outside of Parcel 4 are transferable)
- BC-04
- BC-08
- DM-04
- MM-12
- MM-13
- MM-15
- MM-16
- MM-18
- MM-19
- MM-21
- SB-02
- SB-03
- SB-04

Small caliber gun emplacements are also not shown (GUN-01, GUN-02, GUN-03) since there are multiple locations. Small Caliber Gun Emplacements outside Parcel 4 are transferable.



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